

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **IMMUNE STIMULATION BY PHOSPHOROTHIOATE OLIGONUCLEOTIDE ANALOGS** the specification of which:

() is attached hereto.

(xx) was filed on March 25, 1994 as Application Serial No. 08/217,988 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Country	Number	Date Filed	Priority Claimed		
			Yes	No	
			Yes	No	
			Yes	No	

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (pending, patented)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Herb Boswell, Registration No. 27,311, and Laurel Spear Bernstein, Registration No. 37,280, of Isis Pharmaceuticals, Inc., Carlsbad Research Center, 2280 Faraday Avenue, Carlsbad, California 92008, and Jane Massey Licata, Registration No. 32,257 of the firm of Law Offices of Jane Massey Licata, Woodland Falls Corporate Park, 210 Lake Drive East, Suite 201, Cherry Hill, New Jersey 08002, and Address all telephone calls and correspondence to:

Jane Massey Licata, Esq.
 Law Offices of Jane Massey Licata
 Woodland Falls Corporate Park
 210 Lake Drive East
 Suite 201
 Cherry Hill, New Jersey 08002

Telephone No.: (609) 779-2400

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	Full Name: Stephen L. Hutcherson	Inventor's Signature: <i>Stephen L. Hutcherson</i>	Date: 5/12/94
	Residence: 703 Gordon School Court Richmond, VA 23236	Citizenship: US	
	Post Office Address: Same as above.		
2	Full Name: Josephine M. Glover	Inventor's Signature: <i>Josephine M. Glover</i>	Date 9.5.94
	Residence: 6 Fairlawn Park Kettlewell Hill Woking, Surrey GU21 4HT United Kingdom	Citizenship: Great Britain	
	Post Office Address: Same as above.		
3	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address: Same as above.		
4	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address: Same as above.		
5	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address: Same as above.		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Hutcherson et al.
Serial No.: 09/009,634
Filed: January 20, 1998
For: IMMUNE STIMULATION BY PHOSPHOROTHIOATE
OLIGONUCLEOTIDE ANALOGS
Examiner: M. Schmidt
Art Unit: 1635

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, Washington, D.C. 20231, on the 26 day of October, 2000.


Helen C. Lockhart

COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Sir:

REVOCATION OF PRIOR POWERS OF ATTORNEY

and

NEW POWER OF ATTORNEY

The undersigned, Coley Pharmaceutical Group, Inc., owner of the entire interest conveyed by Assignee, ISIS Pharmaceuticals, Inc., in the above-identified patent application, as demonstrated in the Assignment document dated September 27, 2000, hereby revokes all former powers of attorney and appoints:

Robert M. Abrahamsen	40,886	Jason M. Honeyman	31,624	Stanley Sacks	19,900
Eric Amundsen	46,518	Robert E. Hunt	39,231	Christopher S. Schultz	37,929
John N. Anastasi	37,765	Ronald J. Kransdorf	20,004	Alan B. Sherr	42,147
Ilan Barzilay	46,540	Peter C. Lando	34,654	Robert A. Skrivaneck, Jr.	41,316
Gary S. Engelson	35,128	M. Brad Lawrence	P 47,210	Alan W. Steele	45,128
Neil P. Ferraro	39,188	Helen C. Lockhart	39,248	Mark Steinberg	40,829
Thomas G. Field, III	45,596	Matthew B. Lowrie	38,228	Joseph Teja, Jr.	45,157
Stephen R. Finch	42,534	William R. McClellan	29,409	John R. Van Amsterdam	40,212
Edward R. Gates	31,616	Daniel P. McLoughlin	46,066	Michael G. Verga	39,410
Richard F. Giunta	36,149	James H. Morris	34,681	Robert H. Walat	46,324
Peter J. Gordon	35,164	M. Lawrence Oliverio	30,915	Lisa E. Winsor	44,405
William G. Gosz	27,787	Timothy J. Oyer	36,628	David Wolf	17,528
Lawrence M. Green	29,384	Edward F. Perlman	28,105	Douglas R. Wolf	36,971
George L. Greenfield	17,756	Michael J. Pomianek	46,190		
James M. Hanifin, Jr.	39,213	Elizabeth R. Plumer	36,637		
Therese A. Hendricks	30,389	Randy J. Pritzker	35,986		
Steven J. Henry	27,900	Robert E. Rigby, Jr.	36,904		
		Edward J. Russavage	43,069		

of Wolf, Greenfield & Sacks, P.C., Federal Reserve Plaza, 600 Atlantic Avenue, Boston, Massachusetts 02210-2211, as Applicant's attorneys with full power of substitution and revocation to take any and all action necessary with regard to the above-identified patent application. Address all telephone calls to Helen C. Lockhart at telephone number 617-720-3500. Please forward all correspondence to:

Helen C. Lockhart
Registration No. 39,248
Wolf, Greenfield & Sacks, P.C.
Federal Reserve Plaza
600 Atlantic Avenue
Boston, Massachusetts 02210-2211

Please charge any fee or any fee deficiency occasioned by this document to Deposit Account No. 23/2825.

Date:

Oct. 23, 2000.

Respectfully submitted,

Signature

Name

Title

Coley Pharmaceutical Group, Inc.